

Title (en)

Systems and methods for generating haptic effects associated with transitions in audio signals

Title (de)

Systeme und Verfahren zur Erzeugung haptischer Effekte in Assoziation mit Übergängen in Audiosignalen

Title (fr)

Systèmes et procédés pour générer des effets haptiques associés à des transitions dans des signaux audio

Publication

**EP 2846227 A3 20150429 (EN)**

Application

**EP 14183980 A 20140908**

Priority

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- US 201314078438 A 20131112

Abstract (en)

[origin: EP2846227A2] Systems and methods for generating haptic effects associated with transitions in audio signals are disclosed. One disclosed system for outputting haptic effects includes a processor configured to: receive a signal (402); determine a haptic effect based in part on the signal (404); output a haptic signal associated with the haptic effect (406); an audio output device configured to receive the signal and output an audible effect (408); and a haptic output device in communication with the processor and coupled to the touch surface, the haptic output device configured to receive the haptic signal and output the haptic effect.

IPC 8 full level

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CPC (source: CN EP KR US)

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Citation (search report)

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- [A] WO 2004030341 A1 20040408 - KONINKL PHILIPS ELECTRONICS NV [NL], et al
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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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**EP 2846227 A2 20150311**; **EP 2846227 A3 20150429**; CN 104423593 A 20150318; CN 104423593 B 20181030; CN 109634402 A 20190416; JP 2015053052 A 20150319; JP 2019133685 A 20190808; JP 6494220 B2 20190403; JP 6744940 B2 20200819; KR 20150028736 A 20150316; US 10276004 B2 20190430; US 2015070146 A1 20150312; US 2017270756 A1 20170921; US 2019221087 A1 20190718; US 9711014 B2 20170718

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**EP 14183980 A 20140908**; CN 201410453219 A 20140905; CN 201811182275 A 20140905; JP 2014179759 A 20140904; JP 2019039407 A 20190305; KR 20140116782 A 20140903; US 201314078438 A 20131112; US 201715617172 A 20170608; US 201916299908 A 20190312